Maintenance Crew START Upon receipt of a request for maintenance generate a Langley Form (LF) 781A (see Note 1) Review the request and determine the type of maintenance to be performed (see Note 1) Perform routine maintenance using the General Aircraft Maintenance Manual, LMS-TD-0940 (see Note 1) Yes Problem solved? No Troubleshoot and analyze the discrepancy Perform corrective action using LMS-TD-0940 (see Note 1) Determine if an inspection is required using LMS-TD-0940 (see Note 1) No Inspection required? Yes Perform the inspection (see Note 1) To next page To next page

AIRCRAFT MAINTENANCE, INSPECTION AND FLIGHT RELEASE

LMS-OP-0912 Revision: C-5

Objectives:

- -to ensure all aircraft are maintained in a safe and airworthy condition under an established Maintenance Plan
- -to ensure the Maintenance Plan is fully and correctly implemented

Original signed on file Approval

Organizational Unit Manager,

Flight Research Services Competency

General Information

The following records are generated by this procedure and should be maintained in accordance with CID 1440.7:

Aircraft Maintenance Discrepancy/Work Record, LF 781A (other records may be generated as the result of the implementation of LMS-TD-0940)

Note 1

The General Aircraft Maintenance Manual, LMS-TD-0940, describes maintenance procedures, instructions, and criteria for all aircraft maintenance, inspection, and flight release procedures at Langley Research Center.

A maintenance request is initiated as a result of:

- -Number of hours since the last maintenance cycle
- -The Pilot documenting a discrepancy in the Flight Log (LF 115)
- -The Crew documenting a discrepancy in the Flight Log (LF 781A)
- -Manufacturer directive (system cycles; calendar time; flight hours)
- -Federal Aviation Administration directive (system cycles; calendar time, flight hours)
- -Department of Defense directive system (systems cycles, calendar time, flight hours)

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Maintenance Crew LMS-OP-0912 Revision: C-5 From previous From previous To previous page page page Note 2 A flight readiness review will be performed if: -A 100-hour inspection is due No -An annual inspection is due Passed -A phase inspection is due inspection? -Landing gear has been changed -Engine or propeller(s) have been changed Yes Research Systems -Flight control has been changed Integration Branch (RSIB) Make a record -A major modification was made or Lead of the indicating that the Instrumentation has been installed **Quality Assurance Office** work is complete -Deemed necessary to ensure all effected parties agree using LF 781A with the maintenance actions performed Review LF 781A and forward it to and determine if a Research Note 3 flight readiness Systems An In-house review board is representative of the following review is required Integration disciplines and is case dependent: (see Note 2) Branch (RSIB) or -Pilot Quality -Crew Chief Assurance Office -Avionics for flight -Quality Assurance Flight No readiness review -Instrumentation readiness -Operations and Engineering Branch review? -Aviation Manager -Head, Research Systems Integration Branch Yes -Structural Airworthiness Engineer Convene an in--Other representatives deemed necessary to ensure all house review parties agree with the maintenance actions performed board (see Note 3) Note 4 To obtain an exceptional release, confer with representatives of the following disciplines: Review the work -Aircraft Services Branch performed to -Quality Assurance Office assure that all -Aviation Safety Officer board members -Appropriate Pilot are aware of -Airworthiness Engineer potential impacts -Other representatives deemed necessary to ensure all parties agree with the maintenance actions performed Yes All decisions to approve exceptional release Normal release? (see Note 1) shall be communicated expeditiously to the **Aviation Manager** Research Services Directorate. No Confer with the Head, RSIB and Lead, Quality If exceptional release is denied, perform Obtain an Exceptional Assurance Office maintenance as required. to determine if the Release risk is justifiable (see Note 4) Yes Approve? see Note 1 Notify the No maintenance

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Verify correct revision before use by checking the LMS Web Site

Notify the Head.

RSIB that the risk

is unacceptable

(see Note 1)

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crew of

disallowance and

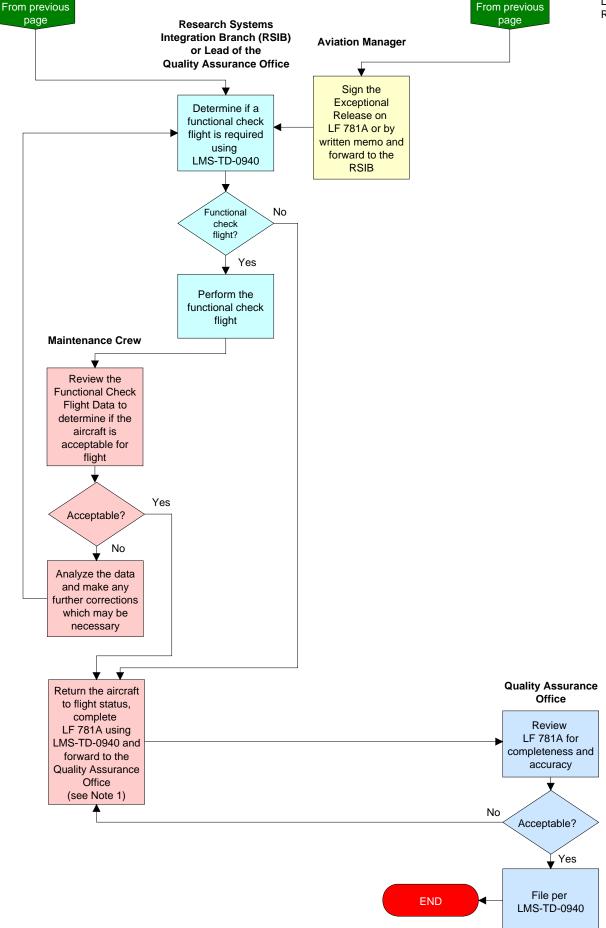
tell them of the

additional action

required to address the risk

(see Notes 1 & 5)

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